

Hoses, Instrument Panels, Custom Products and Accessories

FOR EXPERIMENTAL AIRCRAFT



## RV-12 Gear Leg Brake Installation Manual

Thank you for purchasing your RV-12 Gear Leg Hose Replacement kit. These were designed to be extremely high quality hoses that will provide superior performance and durability when compared to the standard aluminum gear leg lines.

In addition to being easier to install, these lines are flexible and aren't subject to the work hardening and cracking that the aluminum lines are. They are available in both Braided Stainless and also a Braided stainless with an anti abrasion covering. More information on this is available on the website.

In addition, these lines have been tested to work with the wheel pant options from Vans and also fit with gear leg fairings that some builders are installing as aftermarket options.

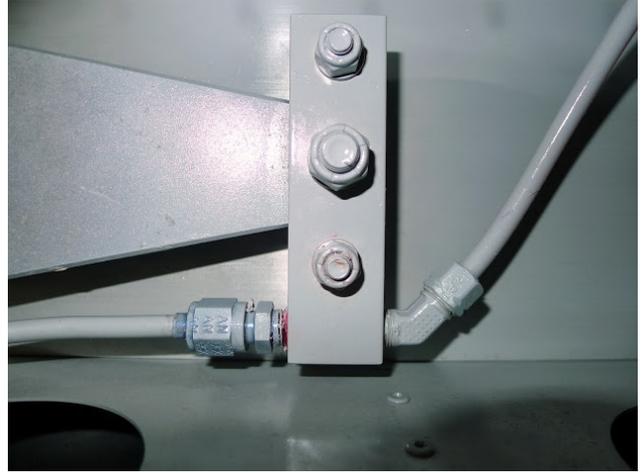
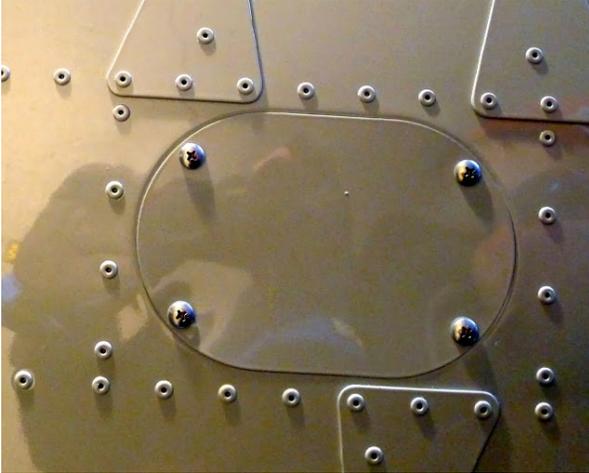
Included in this kit are two gear leg brake hoses. It is important to note that **ONE HOSE IS SLIGHTLY LONGER THAN THE OTHER.** The reason is that the brake fitting on the pilot side is on the forward edge of the gear. On the passenger side, it is on the aft side. As such, the **PILOT SIDE HOSE IS SLIGHTLY LONGER THAN THE PASSENGER SIDE.**



## RV-12 Gear Leg Brake Line Installation Rev 1 1/14/2014

### Step 1:

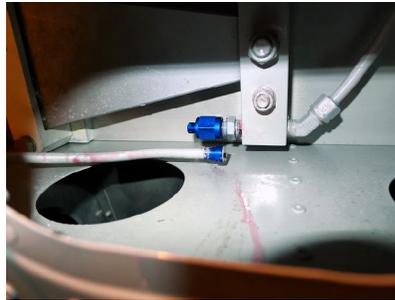
Remove the inspection plate.



### Step 2:

You will want to make sure not to drip hydraulic fluid all over the floor. You can drain your hydraulic system at this point, or you can use an AN Cap to plug the fittings once you have removed the line. If you decide to use a cap, please make sure that you have already cut the tie wraps that hold the line to the gear legs so you are able to quickly move the line out of the way and install the cap.

Once you are ready, remove the fitting at the gear leg.



**Step 3.**

Remove the fitting at the caliper.

The line will be easy to remove from the airplane, although the loop might have to be opened a little to get it past the gear leg. Also, remove and retain the plastic tubes used to protect the line from wear induced by the tie wraps.



**Step 4.**

Attach the new line to the caliper and to the gear fitting and tighten. Slide the plastic tubes or whatever abrasion protection you choose onto your new lines. **VERY IMPORTANT: These lines are designed to have a bit of play in them as seen in the lower right hand picture. While the exact amount is not important, the flex is there for gear leg movement. If yours doesn't appear to have enough flex, please contact us. The amount of slack can be adjusted by clocking the brake line fittings slightly differently if necessary.**



**Step 5.**

Secure the lines to the gear legs with zip ties. Note how nicely the lines fit with both wheel pants and gear leg intersection fairings as shown in the right side picture. The majority of the slack is at the fuselage fitting, which allows flexibility and also allows the hose to tightly conform to the gear near the caliper as shown in the left side picture.



**Step 6:**

Bleed your brake lines. Then test them for sponginess and leaks.



**Step 7:**

Re-attach any inspection covers that were removed.

Thank you for your purchase, and as always, we are available to help you with any questions that you might have.